

Order-optimal methods for integro-differential equations in the singular case

Gabbasov N.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2016, Pleiades Publishing, Ltd. We study a linear integro-differential equation with a coefficient that has zeros of finite orders. For its approximate solution in the space of generalized functions, we suggest and justify special generalized versions of spline methods. Their optimization in the accuracy order is carried out.

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